Gut

Journal of the British Society of Gastroenterology which is a registered charity

VOLUME 35 · 1994

Editor: R N Allan

Technical Editor: Jackie Foulds

Review Editor: Ian Forgacs

Editorial Assistant: Michelle Dimler

EDITORIAL BOARD

M J P Arthur
D C C Bartolo
I S Benjamin
P Bland
J Calam
D C A Candy
R Chapman
T G Cooke
C A Hart
C J Hawkey
S G Hubscher
J Neuberger
H O'Connor
P Quirke
D Rampton
P J Shorvon
D Swallow
D G Thompson
B J R Whittle
R G Newcombe *(Statistical adviser)*
Editor *British Medical Journal*

INTERNATIONAL ADVISORY BOARD

B S Anand (USA)
C Arvanitakis (Greece)
G P van Berge Henegouwen (Netherlands)
G Bianchi-Porro (Italy)
A L Blum (Switzerland)
M van Blankenstein (Netherlands)
J P Delmont (France)
J Dent (Australia)
D Y Graham (USA)
J Hansky (Australia)
J Heathcote (Canada)
R H Hunt (Canada)
J R Jass (New Zealand)
S-J Jiang (China)
S J Konturek (Poland)
S K Lam (Hong Kong)
M M Levine (USA)
J-R Malagelada (Spain)
R Modigliani (France)
T Muto (Japan)
G Paumgartner (Germany)
E W Pomare (New Zealand)
D Rachmilewitz (Israel)
J Rask-Madsen (Denmark)
E Rene (France)
A Torsoli (Italy)

VOLUME 35 · CONTENTS

No 1 JANUARY 1994

Page

Leading articles

1 Travellers' diarrhoea *M J G Farthing*

5 Why measure C reactive protein? *M Z Mazlam, H J F Hodgson*

Oesophageal reflux

8 Predictive factors of the long term outcome in gastro-oesophageal reflux disease: six year follow up of 107 patients *Elbio Kuster, Emilio Ros, Victor Toledo-Pimentel, Amadeo Pujol, Josep M Bordas, Luis Grande, Cristóbal Pera*

Peptic ulcer

15 One week's anti-*Helicobacter pylori* treatment for duodenal ulcer *R P H Logan, P A Gummett, J J Misiewicz, Q N Karim, M M Walker, J H Baron*

19 Evidence for the essential role of *Helicobacter pylori* in gastric ulcer disease *J Labenz, G Börsch*

23 Duodenal bacterial overgrowth during treatment in outpatients with omeprazole *Michael Fried, Hans Siegrist, Reno Frei, Florian Froehlich, Philippe Duroux, Joel Thorens, André Blum, Jacques Bille, Jean J Gonvers, Klaus Gyr*

Small intestine

27 Effect of the quarternary ammonium compound trospium chloride on 24 hour jejunal motility in healthy subjects *T Schmidt, R Widmer, A Pfeiffer, H Kaess*

34 Lipid peroxidation and electrogenic ion transport in the jejunum of the vitamin E deficient rat *K J Lindley, M A Goss-Sampson, D P R Muller, P J Milla*

40 Effects of endotoxin and dexamethasone on group I and II phospholipase A_2 in rat ileum and stomach *I Lilja, J Dimberg, R Sjödahl, C Tagesson, C Gustafson-Svärd*

46 Immunohistochemical localisation of intercellular adhesion molecule-1 in follicle associated epithelium of Peyer's patches *Y Fujimura, T Kihara*

51 Phenotypic and genotypic variation in *Giardia lamblia* isolates during chronic infection *P D Butcher, A M Cevallos, S Carnaby, E M Alstead, E T Swarbrick, M J G Farthing*

Coeliac disease

55 Immunohistochemical changes in the jejunum in first degree relatives of patients with coeliac disease and the coeliac disease marker DQ genes. HLA class II antigen expression, interleukin-2 receptor positive cells and dividing crypt cells *K Holm, E Savilahti, S Koskimies, V Lipsanen, M Mäki*

61 Serological screening suggests that adult coeliac disease is underdiagnosed in the UK and increases the incidence by up to 12% *D J Unsworth, D L Brown*

65 Coeliac disease in the elderly *G L Hankey, G K T Holmes*

Inflammatory bowel disease

68 Intestinal permeability in patients with Crohn's disease and ulcerative colitis and their first degree relatives *P Munkholm, E Langholz, D Hollander, K Thornberg, M Orholm, K D Katz, V Binder*

73 Butyrate oxidation is impaired in the colonic mucosa of sufferers of quiescent ulcerative colitis *M A S Chapman, M F Grahn, M A Boyle, M Hutton, J Rogers, N S Williams*

77 Interrelations between interleukin-6, interleukin-1β, plasma C-reactive protein values, and in vitro C-reactive protein generation in patients with inflammatory bowel disease *M Z Mazlam, H J F Hodgson*

84 Liver disease in ulcerative colitis: an epidemiological and follow up study in the county of Stockholm *U Broomé, H Glaumann, G Hellers, B Nilsson, J Sörstad, R Hultcrantz*

90 Bile acid malabsorption in Crohn's disease and indications for its assessment using SeHCAT *H Nyhlin, M V Merrick, M A Eastwood*

94 Pathogenesis of gall stones in Crohn's disease: an alternative explanation *R Hutchinson, P N M Tyrrell, D Kumar, J A Dunn, J K W Li, R N Allan*

Liver

98 Expression of mutant p53 protein in hepatocellular carcinoma *J D Collier, M Carpenter, A D Burt, M F Bassendine*

101 Acute fatty liver of pregnancy: a clinical study of 12 episodes in 11 patients *Humberto Reyes, Lorena Sandoval, Andres Wainstein, Jose Ribalta, Sergio Donoso, Gladys Smok, Helmar Rosenberg, Manuel Meneses*

Gall stones

107 Cigarette smoking and parity as risk factors for the development of symptomatic gall bladder disease in women: results of the Royal College of General Practitioners' oral contraception study *F E Murray, R F A Logan, P C Hannaford, C R Kay*

112 Duodenal bile examination in identifying potential non-responders to bile salt treatment and its comparison with gall bladder bile examination *D K Agarwal, G Choudhuri, V A Saraswat, T S Negi, V K Kapoor, R Saxena*

117 Gall stone pulverisation strategy in patients treated with extracorporeal lithotripsy and follow up results of maintenance treatment with ursodeoxycholic acid *M Boscaini, M Piccinni-Leopardi, F Andreotti, A Montori*

Biliary tract

122 Management of common bile duct stricture caused by chronic pancreatitis with metal mesh self expandable stents *J Deviere, M Cremer, M Baize, J Love, B Sugai, A Vandermeeren*

127 Endoscopic sphincteroplasty: a novel and safe alternative to papillotomy in the management of bile duct stones *P Mac Mathuna, P White, E Clarke, J Lennon, J Crowe*

Case reports

130 Intramural haematoma of the oesophagus complicating sclerotherapy for varices *E Mosimann, B Brönnimann*

132 Multifocal osteonecrosis related to steroid treatment in a patient with ulcerative colitis *P V Madsen, G Andersen*

Special report

135 Specialist training in gastroenterology in the European Community: the case for European Boards *European Board of Gastroenterology*

139 **BSG President's report for 1992–93**

140 **Letters to the editor**

142 **Referees**

No 2 FEBRUARY 1994

Leading articles

145 Cholera and severe toxigenic diarrhoeas *D R Nalin*

150 Bone mineral density in coeliac disease *J R F Walters*

Oesophagus

152 Stimulation and characteristics of secondary oesophageal peristalsis in normal subjects *M N Schoeman, R H Holloway*

159 Strain induced augmentation of upper oesophageal sphincter pressure in children *J Willing, Y Furukawa, G P Davidson, J Dent*

165 Diminished oesophageal traction forces with swallowing in gastro-oesophageal reflux disease and in functional dysphagia *D Williams, D G Thompson, M Marples, L Heggie, T O'Hanrahan, J Bancewicz*

Stomach

172 Postprandial antropyloroduodenal motility and gastric emptying in gastroparesis – effects of cisapride *R J Fraser, M Horowitz, A F Maddox, J Dent*

179 *Helicobacter pylori* stimulates antral mucosal reactive oxygen metabolite production in vivo *G R Davies, N J Simmonds, T R J Stevens, M T Sheaff, N Banatvala, I F Laurenson, D R Blake, D S Rampton*

186 Superior mesenteric artery blood flow and gastric emptying in humans and the differential effects of high fat and high carbohydrate meals *M B Sidery, I A Macdonald, P E Blackshaw*

191 A database on dyspepsia *G P Crean, R J Holden, R P Knill-Jones, A D Beattie, W B James, F M Marjoribanks, D J Spiegelhalter*

Small intestine

203 Ambulatory small intestinal motility in 'diarrhoea' predominant irritable bowel syndrome *D A Gorard, G W Libby, M J G Farthing*

211 Absorption of a hypotonic oral rehydration solution in a human model of cholera *J B Hunt, A V Thillainayagam, S Carnaby, P D Fairclough, M L Clark, M J G Farthing*

215 Tumour necrosis factor and endotoxin synergistically activate intestinal phospholipase A_2 in mice. Role of endogenous platelet activating factor and effect of exogenous platelet activating factor *X Sun, M S Caplan, W Hsueh*

Inflammatory bowel disease

220 Surgical resections in parous patients with distal ileal and colonic Crohn's disease *C U Nwokolo, W C Tan, H A Andrews, R N Allan*

224 Enzyme linked immunosorbent assay (ELISA) and immunoprecipitation studies on anti-goblet cell antibody using a mucin producing cell line in patients with inflammatory bowel disease *T Hibi, M Ohara, K Kobayashi, W R Brown, K Toda, H Takaishi, Y Hosoda, A Hayashi, Y Iwao, M Watanabe, S Aiso, Y Kawai, M Tsuchiya*

231 Correlations between clinical activity, endoscopic severity, and biological parameters in colonic or ileocolonic Crohn's disease. A prospective multicentre study of 121 cases *C Cellier, T Sahmoud, E Froguel, A Adenis, J Belaiche, J-F Bretagne, C Florent, M Bouvry, J-Y Mary, R Modigliani, and the Groupe d'Etudes Thérapeutiques des Affections Inflammatoires Digestives*

236 Faecal diversion for Crohn's colitis: a model to study the role of the faecal stream in the inflammatory process *M C Winslet, A Allan, V Poxon, D Youngs, M R B Keighley*

243 Pouchitis – recurrence of the inflammatory bowel disease? *P Luukkonen, H Järvinen, M Tanskanen, A Kahri*

Large intestine

247 Effect of nicotine on rectal mucus and mucosal eicosanoids *F J Zijlstra, E D Srivastava, M Rhodes, A P M van Dijk, F Fogg, H J Samson, M Copeman, M A H Russell, C Feyerabend, G T Williams, R D Pullan, G A O Thomas, M Van Blankenstein, J H P Wilson, A Allen, J Rhodes*

252 Effects of biofeedback on obstructive defecation – reconditioning of the defecation reflex? *M Papachrysostomou, A N Smith*

Liver

257 Longterm outcome after injection sclerotherapy for oesophageal varices in children with extrahepatic portal hypertension *M D Stringer, E R Howard*

260 Antimitochondrial antibody negative primary biliary cirrhosis: a distinct syndrome of autoimmune cholangitis *P Michieletti, I R Wanless, A Katz, P J Scheuer, S J Yeaman, M F Bassendine, J M Palmer, E J Heathcote*

Pancreas

266 Expression of glutathione S-transferases in normal and malignant pancreas: an immunohistochemical study *J D Collier, M K Bennett, A Hall, A R Cattan, R Lendrum, M F Bassendine*

270 Cholecystokinin type B receptor antagonist PD-136, 450 is a partial secretory agonist in the stomach and a full agonist in the pancreas of the rat *A Schmassmann, A Garner, B Flogerzi, M Y Hasan, M Sanner, L Varga, F Halter*

Case reports

275 Argyrophil cell hyperplasia and a carcinoid tumour in the stomach of a patient with sporadic Zollinger-Ellison syndrome *G E Feurle*

278 Crohn's disease and myasthenia gravis: a possible role for thymectomy *I A Finnie, R Shields, R Sutton, R Donnelly, A I Morris*

280 Pulmonary hypertension associated with primary biliary cirrhosis in the absence of portal hypertension: a case report *E M Yoshida, S R Erb, D N Ostrow, D R Ricci, C H Scudamore, G Fradet*

283 **BSG President's report**

284 **Letters to the editor Notes**

No 3 MARCH 1994

Leading articles

289 Parasitic infections of the small intestine *J Jernigan, R L Guerrant, R D Pearson*

294 Epithelial cell lineages in developing, restoring, and transforming liver: evidence for the existence of a 'differentiation window' *N Marceau*

297 Inflammatory mediators in the oesophagus *G P Morgan, J G Williams*

Oesophagus

299 Palliation of malignant dysphagia by ethanol induced tumour necrosis *C U Nwokolo, J J Payne-James, D B A Silk, J J Misiewicz, D E Loft*

304 Simultaneous two level oesophageal pH monitoring in healthy controls and patients with oesophagitis: comparison between two positions *P Singh, R H Taylor, D G Colin-Jones*

Helicobacter pylori

309 Prevalence of peptic ulcer in *Helicobacter pylori* positive blood donors *D Vaira, M Miglioli, P Mulè, J Holton, M Menegatti, M Vergura, G Biasco, R Conte, R P H Logan, L Barbara*

313 High prevalence of *Helicobacter pylori* infection in cohabiting children. Epidemiology of a cluster, with special emphasis on molecular typing *P Vincent, F Gottrand, P Pernes, M O Husson, M Lecomte-Houcke, D Turck, H Leclerc*

317 Effect of *Helicobacter pylori* and its eradication on gastric juice ascorbic acid *S Banerjee, C Hawksby, S Miller, S Dahill, A D Beattie, K E L McColl*

323 Eradication of *Helicobacter pylori* with clarithromycin and omeprazole *R P H Logan, P A Gummett, H D Schaufelberger, R R F H Greaves, G M Mendelson, M M Walker, P H Thomas, J H Baron, J J Misiewicz*

Gastric motility

327 Abnormal intragastric distribution of food during gastric emptying in functional dyspepsia patients *L E A Troncon, R J M Bennett, N K Ahluwalia, D G Thompson*

333 Pharmacological modulation of gastric emptying rate of solids as measured by the carbon labelled octanoic acid breath test: influence of erythromycin and propantheline *B D Maes, M I Hiele, B J Geypens, P J Rutgeerts, Y F Ghoos, G Vantrappen*

Small intestine

338 Polarised interleukin 8 secretion by HT 29/19A cells *K M Lammers, J Jansen, P B Bijlsma, M Ceska, G N J Tytgat, C L Laboisse, S J H van Deventer*

343 Cholesterol synthesis and high density lipoprotein uptake are regulated independently in rat small intestinal epithelium *C Lutton, G Champarnaud*

Inflammatory bowel disease

347 Lower gastrointestinal malignancy in Crohn's disease *W R Connell, J P Sheffield, M A Kamm, J K Ritchie, P R Hawley, J E Lennard-Jones*

353 Thickness of adherent mucus gel on colonic mucosa in humans and its relevance to colitis *R D Pullan, G A O Thomas, M Rhodes, R G Newcombe, G T Williams, A Allen, J Rhodes*

360 Frequency of glucocorticoid resistance and dependency in Crohn's disease *P Munkholm, E Langholz, M Davidsen, V Binder*

363 Controlled trial of anti-tuberculous chemotherapy for two years in Crohn's disease *G L Swift, E D Srivastava, R Stone, R D Pullan, R G Newcombe, J Rhodes, S Wilkinson, P Rhodes, G Roberts, B W Lawrie, K T Evans, P A Jenkins, G T Williams, G Strohmeyer, G Kreuzpaintner, G A O Thomas, B Calcraft, P S Davies, T J Morris, J Morris*

369 Incidence of inflammatory bowel disease in north west Greece: rarity of Crohn's disease in an area where ulcerative colitis is common *E V Tsianos, C N Masalas, M Merkouropoulos, G N Dalekos, R F A Logan*

373 Ileitis after colectomy for ulcerative colitis or carcinoma *A Hallak, M Baratz, M Santo, Z Halpern, M Rabau, N Werbin, T Gilat*

Large intestine

377 Desmoid tumours in familial adenomatous polyposis *A K Gurbuz, R M Giardiello, G M Petersen, A J Krush, G J A Offerhaus, S V Booker, M C Kerr, S R Hamilton*

382 Human colorectal tumour infiltrating lymphocytes express activation markers and the CD45RO molecule, showing a primed population of lymphocytes in the tumour area *B Østenstad, T Lea, E Schlichting, M Harboe*

388 Pelvic floor function in multiple sclerosis *J S Jameson, J Rogers, Y W Chia, J J Misiewicz, M M Henry, M Swash*

391 Fistulas in ano: endoanal ultrasonographic assessment assists decision making for surgery *K I Deen, J G Williams, R Hutchinson, M R B Keighley, D Kumar*

Liver

395 Focused liver ablation by cavitation in the rabbit: a potential new method of extracorporeal treatment *F Prat, J-Y Chapelon, F Abou El Fadil, A Sibille, Y Theillière, T Ponchon, D Cathignol*

Pancreas

401 Origin and development of exocrine pancreatic insufficiency in experimental renal failure *M M Lerch, P Hoppe-Seyler, W Gerok*

Endoscopy

408 Oxygen saturation during endoscopic retrograde cholangiopancreatography: a comparison of two protocols of oxygen administration *J D Rigg, T C Watt, D E F Tweedle, D F Martin*

Biliary tree

412 Non-adrenergic non-cholinergic inhibitory innervation shown by electrical field stimulation of isolated strips of human gall bladder muscle *M L McKirdy, H C McKirdy, C D Johnson*

417 Pulverisation of calcified and non-calcified gall bladder stones: extracorporeal shock wave lithotripsy used alone *N Soehendra, V-C Nam, K F Binmoeller, H Koch, S Bohnacker, H W Schreiber*

Case reports

423 Benign intracranial hypertension during prednisolone treatment for inflammatory bowel disease *M Newton, B T Cooper*

426 Drug induced lymphocytic colitis *L Beaugerie, J Luboinski, N Brousse, J Cosnes, F-P Chatelet, J-P Gendre, Y Le Quintrec*

429 **Letters to the editor** **Book reviews** **Notes**

No 4 APRIL 1994

Leading articles

433 Isolated hepatocytes: use in experimental and clinical hepatology *Alastair J Strain*

437 Strongyloidiasis: a conundrum for gastroenterologists *D I Grove*

441 Intestinal absorption of peptide drugs: advances in our understanding and clinical implications *M Catnach, P D Fairclough, S M Hammond*

445 Transjugular intrahepatic portosystemic stent shunts *P C Hayes, D N Redhead, N D C Finlayson*

Oesophageal reflux

447 Effect of famotidine on oesophageal sensitivity in gastro-oesophageal reflux disease M Marrero, J S de Caestecker, J D Maxwell

Duodenal ulcer

451 Death from malignant disease after surgery for duodenal ulcer *I M C Macintyre, F O'Brien*

455 Effect of omeprazole on intragastric bacterial counts, nitrates, nitrites, and N-nitroso compounds *E Verdu, F Viani, D Armstrong, R Fraser, H H Siegrist, B Pignatelli, J-P Idström, C Cederberg, A L Blum, M Fried*

Therapeutic endoscopy

461 Endoscopic laser treatment of diffuse gastric antral vascular ectasia *S Potamiano, C R Carter, J R Anderson*

464 Acute gastrointestinal haemorrhage in anticoagulated patients: diagnoses and response to endoscopic treatment *C P Choudari, C Rajgopal, K R Palmer*

467 Symptom relief and quality of life after stenting for malignant bile duct obstruction *A B Ballinger, M McHugh, S M Catnach, E M Alstead, M L Clark*

Small intestine

471 Localisation of neuroendocrine tumours of the upper gastrointestinal tract *T Zimmer, K Ziegler, M Bäder, U Fett, B Hamm, E-O Riecken, B Wiedenmann*

476 Intestinal antibody pattern of coeliac disease: association with γ/δ T cell receptor expression by intraepithelial lymphocytes, and other indices of potential coeliac disease *E Arranz, J Bode, K Kingstone, A Ferguson*

483 *Lactobacillus acidophilus* LA 1 binds to cultured human intestinal cell lines and inhibits cell attachment and cell invasion by enterovirulent bacteria *M F Bernet, D Brassart, J R Neeser, A L Servin*

490 Short term effects of indomethacin on rat small intestinal permeability. Role of eicosanoids and platelet activating factor *F Mion, J-C Cuber, Y Minaire, J-A Chayvialle*

496 5-Hydroxytryptamine and human small intestinal motility: effect of inhibiting 5-hydroxytryptamine reuptake *D A Gorard, G W Libby, M J G Farthing*

501 Effect of a low dose of intraduodenal fat on satiety in humans: studies using the type A cholecystokinin receptor antagonist loxiglumide *R J Lieverse, J B M J Jansen, A A M Masclee, L C Rovati, C B H W Lamers*

506 Specific detection of *Mycobacterium paratuberculosis* DNA associated with granulomatous tissue in Crohn's disease *H M Fidler, W Thurrell, N McI Johnson, G A W Rook, J J McFadden*

511 Class II major histocompatibility complex antigen expression on peripheral blood monocytes in patients with inflammatory bowel disease *K R Gardiner, A D Crockard, M I Halliday, B J Rowlands*

517 Abnormal leukotriene C_4 release by unaffected jejunal mucosa in patients with inactive Crohn's disease *F Casellas, F Guarner, M Antolín, R Rodríguez, A Salas, J-R Malagelada*

523 Relationship of small bowel motility to ileoanal reservoir function *S Groom, M A Kamm, R J Nicholls*

Large intestine

530 Proliferating cell nuclear antigen (PCNA): a new marker to study human colonic cell proliferation *F J G M Kubben, A Peeters-Haesevoets, L G J B Engels, C G M I Baeten, B Schutte, J W Arends, R W Stockbrügger, G H Blijham*

536 Serotonergic mediation of postprandial colonic tonic and phasic responses in humans *M R von der Ohe, R B Hanson, M Camilleri*

Liver

542 Hepatitis C virus in autoimmune liver disease in the UK: aetiological agent or artefact? *B P Rowan, A Smith, D Gleeson, L P Hunt, T W Warnes*

Pancreatitis

547 Dopamine in models of alcoholic acute pancreatitis *N D Karanjia, A L Widdison, F J Lutrin, H A Reber*

552 Progression of alcoholic acute to chronic pancreatitis *R W Ammann, B Muellhaupt*

Case reports

557 Intraluminal duodenal diverticulum causing recurrent pancreatitis: treatment by endoscopic incision *I A Finnie, P Ghosh, C Garvey, G J Poston, J M Rhodes*

560 Non-fatal portal pyaemia complicating Crohn's disease of the terminal ileum *H Al-Jahdali, C Pon, W G Thompson, F R Matzinger*

562 Ulcerative colitis in a husband and wife *G M Batty, W E Wilkins, J S Morris*

564 Primary biliary cirrhosis presenting with granulomatous skin lesions *D L Jardine, S T Chambers, D J Hart, B A Chapman*

567 Rim calcification in primary liver cell carcinoma mimicking hydatid disease *A W Mitchell, J N P Higgins, J Tate, R Dick*

569 Fulminant hepatic failure secondary to hydroxychloroquine *A J Makin, J Wendon, S Fitt, B C Portmann, Roger Williams*

571 **Letters to the editor Notes Book reviews**

A574 **Pancreatic Society of Great Britain and Ireland**

No 5 MAY 1994

Leading articles

577 Liver cell death: patterns and mechanisms *M R Alison, C E Sarraf*

582 Persisting diarrhoea and malabsorption *G C Cook*

587 Cancer surveillance in ulcerative colitis – a time for reappraisal *A T R Axon*

Oesophagus

590 Omeprazole *v* ranitidine for prevention of relapse in reflux oesophagitis. A controlled double blind trial of their efficacy and safety *J Dent, N D Yeomans, M Mackinnon, W Reed, F M Narielvala, D J Hetzel, E Solcia, D J C Shearman*

599 Cytochrome P450 expression in oesophageal cancer *G I Murray, D Shaw, R J Weaver, J A McKay, S W B Ewen, W T Melvin, M D Burke*

Stomach

604 Expression of transforming growth factor alpha in experimental gastric carcinogenesis *J I Livingstone, M I Filipe, C Wastell*

608 Endoscopic injection therapy for bleeding peptic ulcer; a comparison of adrenaline alone with adrenaline plus ethanolamine oleate *C P Choudari, K R Palmer*

611 Increased gastric juice epidermal growth factor after non-steroidal anti-inflammatory drug ingestion *S M Kelly, J R Jenner, R J Dickinson, J O Hunter*

615 Gastrin and somatostatin in *Helicobacter pylori* infected antral mucosa *L Ødum, H D Petersen, I B Andersen, B F Hansen, J F Rehfeld*

619 Smoking, alcohol, and analgesics in dyspepsia and among dyspepsia subgroups: lack of an association in a community *N J Talley, A R Zinsmeister, C D Schleck, L J Melton III*

Small intestine

625 Human small intestinal contractions and aboral traction forces during fasting and after feeding *N K Ahluwalia, D G Thompson, J Barlow, L Heggie*

631 Relation between chloride secretion and intracellular cyclic adenosine monophosphate in a cloned human intestinal cell line HT-29 cl 19A *S K Nath, X Huang, A L'helgoualc'h, M Rautureau, A Bisalli, M Heyman, J F Desjeux*

637 Failure of tropisetron to inhibit jejunal water and electrolyte secretion induced by 5-hydroxytryptamine in healthy volunteers *L K Munck, O Eskerod, M B Hansen, K Bukhave, J Rask-Madsen*

641 Response of the human intestine to high volume infusion *C Steadman, P Kerlin*

646 Distribution of the carbonic anhydrase isoenzymes I, II, and VI in the human alimentary tract *S Parkkila, A-K Parkkila, T Juvonen, H Rajaniemi*

Inflammatory bowel disease

651 Crohn's disease and colorectal cancer *C D Gillen, H A Andrews, P Prior, R N Allan*

656 Timing of ileocolonic resection for symptomatic Crohn's disease – the patient's view *N A Scott, L E Hughes*

658 Pouchitis: result of microbial imbalance? *J G H Ruseler-van Embden, W R Schouten, L M C van Lieshout*

665 Morbidity of juvenile onset inflammatory bowel disease: effects on education and employment in early adult life *A Ferguson, D M Sedgwick, J Drummond*

669 Increased macrophage subset in inflammatory bowel disease: apparent recruitment from peripheral blood monocytes *J Rugtveit, P Brandtzaeg, T S Halstensen, O Fausa, H Scott*

Large intestine

675 Patients with adenomatous polyps and carcinomas have increased colonic mucosal prostaglandin E_2 *S Pugh, G A O Thomas*

679 Functional hyposplenism in alcoholic liver disease: a toxic effect of alcohol? *A F Muller, P J Toghill*

683 Measurement of androgen receptor expression in adult liver, fetal liver, and Hep-G2 cells by the polymerase chain reaction *A P Stubbs, J L Engelman, J I H Walker, P Faik, G M Murphy, M L Wilkinson*

687 Combined (short term plus long term) sclerotherapy *v* short term only sclerotherapy: a randomised prospective trial *M Moretó, M Zaballa, E Ojembarrena, S Ibáñez, M-J Suárez, F Setíen, E Delgado*

Biliary tree

692 Percutaneous cholecystolithotomy: is gall stone recurrence inevitable? *J J Donald, S Cheslyn-Curtis, A R Gillams, R C G Russell, W R Lees*

Progress report

696 Genetics of inflammatory bowel disease *J Satsangi, D P Jewell, W M C Rosenberg, J I Bell*

Case reports

701 Healing of protein losing hypertrophic gastropathy by eradication of *Helicobacter pylori* – Is *Helicobacter pylori* a pathogenic factor in Ménétrier's disease? *E Bayerdörffer, M M Ritter, R Hatz, W Brooks, G Ruckdeschel, M Stolte*

705 Biliary obstruction resulting from *Strongyloides stercoralis* infection. Report of a case *E Delarocque Astagneau, A Hadengue, C Degott, V Vilgrain, S Erlinger, J P Benhamou*

707 Diagnostic pitfall; interpretation of CA 19–9 concentrations in the presence of hepatic dysfunction *S Pearce, H Thornes, D Carr, A Tanner*

709 Spontaneous bacterial peritonitis in cystic fibrosis *C F Doershuk, R C Stern*

712 Pancreatitis induced by nitrofurantoin *J-L Christophe*

714 **Letters to the editor Notes**

A719 **British Association for the Study of the Liver**

No 6 JUNE 1994

Leading articles

723 The urea breath test for *Helicobacter pylori* *J C Atherton, R C Spiller*

726 *Salmonella typhi* and other salmonellas *B K Mandal*

729 Hepatocyte-matrix interactions *J P Iredale, M J P Arthur*

Editorial

732 Introduction to new section – Views and reviews

Oesophagus

733 Temporal relationships between episodes of non-cardiac chest pain and abnormal oesophageal function *H G Th Lam, R Breumelhof, G P van Berge Henegouwen, A J P M Smout*

Peptic ulcer

737 Effect of ranitidine on basal and bicarbonate enhanced intragastric PCO_2: a tonometric study *J J Kolkman, A B J Groeneveld, S G M Meuwissen*

742 Importance of childhood socioeconomic status on the current prevalence of *Helicobacter pylori* infection *H M Malaty, D Y Graham*

746 Bleeding peptic ulcer – risk factors for rebleeding and sequential changes in endoscopic findings *Ping-I Hsu, Xi-Zhang Lin, Shih-Huang Chan, Ching-Yih Lin, Ting-Tsung Chang, Jeng-Shiann Shin, Lie-Yuan Hsu, Chi-Chieh Yang, Kuan-Wen Chen*

750 Maintenance of intragastric pH>4 with famotidine in duodenal ulcer patients: factors influencing drug requirements *J C Delchier, F Roudot-Thoraval, L Stanescu, M C Deharvengt, L Elouaer Blanc*

755 Effects of *Helicobacter pylori* on histamine and carbachol stimulated acid secretion by human parietal cells *H Jablonowski, K J Hengels, N Kraemer, G Geis, W Opferkuch, G Strohmeyer*

Gastrointestinal cancer

758 Goseki histological grading of gastric cancer is an important predictor of outcome *I G Martin, M F Dixon, H Sue-Ling, A T R Axon, D Johnston*

764 Adenocarcinoma arising in Barrett's oesophagus: evidence for the participation of p53 dysfunction in the dysplasia/carcinoma sequence *R H Hardwick, N A Shepherd, M Moorghen, P V Newcomb, D Alderson*

Coeliac disease

769 Lewis phenotype, secretor status, and coeliac disease *W Dickey, J D C Wylie, J S A Collins, K G Porter, R G P Watson, J C McLoughlin*

771 Serological screening of coeliac disease: choosing the optimal procedure according to various prevalence values *G Corrao, G R Corazza, M L Andreani, P Torchio, R A Valentini, G Galatola, D Quaglino, G Gasbarrini, F di Orio*

776 Endomysium antibodies in coeliac disease: an improved method *B Ladinser, E Rossipal, K Pittschieler*

779 Effects of gluten enriched diet on the small intestinal mucosa of normal mice and mice with graft versus host reaction *R Troncone, N Caputo, A Zibella, G Molitierno, L Maiuri, S Auricchio*

Inflammatory bowel disease

783 Comparison of amino acid *v* peptide based enteral diets in active Crohn's disease: clinical and nutritional outcome *D Royall, K N Jeejeebhoy, J P Baker, J P Allard, F M Habal, S C Cunnane, G R Greenberg*

788 Association between Meckel's diverticulum and Crohn's disease: a retrospective review *H J N Andreyev, R A Owen, I Thompson, A Forbes*

Large intestine

791 Serum free medium increases expression of markers of differentiation in human colonic crypt cells *P Gibson, O Rosella, G Young*

798 Discriminant value of psychological distress, symptom profiles, and segmental colonic dysfunction in outpatients with severe idiopathic constipation *R L Grotz, J H Pemberton, N J Talley, D M Rath, A R Zinsmeister*

HIV

803 Is there IgA of gut mucosal origin in the serum of HIV1 infected patients? *A Quesnel, Ph Moja, F Lucht, J L Touraine, B Pozzetto, C Genin*

Liver

809 Serious paracetamol poisoning and the results of liver transplantation *D J Mutimer, R C S Ayres, J M Neuberger, M H Davies, J Holguin, J A C Buckels, A D Mayer, P McMaster, E Elias*

815 Intrahepatic portal occlusion by microspheres: a new model of portal hypertension in the rat *V Jaffe, B Alexander, R T Mathie*

Gall stones

819 Relief of heterogeneous symptoms after successful gall bladder stone lithotripsy and complete stone disappearance *U Stölzel, Ch Koszka, B Wölfer, U Kleine, W Pommerien, E O Riecken*

Pancreas

822 Inflammatory response in the early prediction of severity in human acute pancreatitis *J A Viedma, M Pérez-Mateo, J Agulló, J E Dominguez, F Carballo*

Progress reports

828 Viruses and hepatocellular carcinoma *S Sherlock*

833 Chronic, non-visceral abdominal pain *D Sharpstone, D G Colin-Jones*

Clinical trial

837 Effect of omeprazole and sucralfate on prepyloric gastric ulcer. A double blind comparative trial and one year follow up *H Toft Sørensen, H Højgaard Rasmussen, I Balslev, S Boesby, J Boné, A Kruse, S Nørby Rasmussen*

Case reports

841 Gastric outlet obstruction as a presenting manifestation of systemic lupus erythematosus *E F M Posthuma, P Warmerdam, M P Chandie Shaw, F C Breedveld, J D Macfarlane, A van der Sluys Veer, C B H W Lamers*

844 Coeliac disease and autoimmune thyroid disease *C E Counsell, A Taha, W S J Ruddell*

847 Unusual pulmonary complication of ulcerative colitis with rapid response to corticosteroids: case report *G A L Hilling, D A F Robertson, A H Chalmers, H S Rigby*

849 Fulminant hepatic failure resulting from coexistent Wilson's disease and hepatitis E *R Sallie, J Chiyende, K C Tan, D Bradley, B Portmann, Roger Williams, A P Mowat, G Mieli-Vergani*

854 Adult rhabdomyosarcoma of the gall bladder: case report and review of published works *T M Al-Jaberi, M Al-Masri, A Tbukhi*

857 Progressive systemic sclerosis of the internal anal sphincter leading to passive faecal incontinence *A F Engel, M A Kamm, I C Talbot*

Views and reviews

860 Personal viewpoints

862 International gastroenterology

863 **Letters to the editor Book reviews Notes Corrections**

No 7 JULY 1994

Leading articles

867 Lymphocyte and macrophage interleukin receptors in inflammatory bowel disease: a more selective target for therapy *M J Weldon, J D Maxwell*

872 The shigella paradigm and colitis due to enterohaemorrhagic *Escherichia coli* *D W K Acheson, G T Keusch*

875 Isolation and culture of biliary epithelial cells *Ruth Joplin*

Oesophagus

879 Tissue culture of epithelium derived from Barrett's oesophagus *K Washington, M R Gottfried, M J Telen*

884 Effects of intraluminal acidification on oesophageal motor activity *I Bontempo, L Piretta, E Corazziari, F Michetti, F Anzini, A Torsoli*

Peptic ulcer

891 Predicting NSAID related ulcers – assessment of clinical and pathological risk factors and importance of differences in NSAID *A S Taha, S Dahill, R D Sturrock, F D Lee, R I Russell*

896 Antacid provides better restoration of glandular structures within the gastric ulcer scar than omeprazole *A Schmassmann, A Tarnawski, H A Gerber, B Flogerzi, M Sanner, L Varga, F Halter*

905 Polymerase chain reaction assay for the detection of *Helicobacter pylori* in gastric biopsy specimens: comparison with culture, rapid urease test, and histopathological tests *R Fabre, I Sobhani, P Laurent-Puig, N Hedef, N Yazigi, C Vissuzaine, I Rodde, F Potet, M Mignon, J P Etienne, M Braquet*

909 Pentoxifylline prevents indomethacin induced acute gastric mucosal damage in rats: role of tumour necrosis factor alpha *L Santucci, S Fiorucci, M Giansanti, P M Brunori, F M Di Matteo, A Morelli*

916 Sleep and duodenal motor activity in patients with severe non-ulcer dyspepsia *D David, H Mertz, L Fefer, B Sytnik, H Raeen, N Niazi, A Kodner, E A Mayer*

Small intestine

926 Effect of dietary nucleotides on small intestinal repair after diarrhoea. Histological and ultrastructural changes *J Bueno, M Torres, A Almendros, R Carmona, M C Nuñez, A Rios, A Gil*

934 Tumour necrosis factor α changes porcine intestinal ion transport through a paracrine mechanism involving prostaglandins *H M Kandil, H M Berschneider, R A Argenzio*

Gastrointestinal cancer

941 An audit of the treatment of cancer of the oesophagus *P M Sagar, T Gauperaa, H Sue-Ling, M J McMahon, D Johnston*

946 Gastric cancer risk after vagotomy *G Lundegårdh, A Ekbom, J K McLaughlin, O Nyrén*

950 Similarity of colorectal cancer in Crohn's disease and ulcerative colitis: implications for carcinogenesis and prevention *P M Choi, M P Zelig*

Inflammatory bowel disease

955 Deficient interleukin 2 dependent proliferation pathway in T lymphocytes from active and inactive ulcerative colitis patients *L Manzano, M Alvarez-Mon, J A Vargas, J A Girón, L Abreu, A Fernández-Corugedo, L I Román, F Albarran, A Durántez*

961 Observer variation and discriminatory value of biopsy features in inflammatory bowel disease *A Theodossi, D J Spiegelhalter, J Jass, J Firth, M Dixon, M Leader, D A Levison, R Lindley, I Filipe, A Price, N A Shepherd, S Thomas, H Thompson*

Large intestine

969 Secretion of urokinase and plasminogen activator inhibitor-1 by normal colonic epithelium in vitro *P Gibson, O Rosella, G Rosella, G Young*

976 Simplified method for the measurement of segmental colonic transit time *A Notghi, R Hutchinson, D Kumar, N B Smith, L K Harding*

Liver

982 Extent of the acute phase response in fulminant hepatic failure *S Izumi, R D Hughes, R P Langley, J R B Pernambuco, Roger Williams*

987 Study of plasma and red cell phospholipid fatty acids in extrahepatic cholestatic jaundice *M W Scriven, D F Horrobin, M C A Puntis*

Biliary tract

991 Imaging of the common bile duct in patients undergoing laparoscopic cholecystectomy *P J Hainsworth, M Rhodes, R H K Gompertz, C P Armstrong, T W J Lennard*

Progress report

996 Current concepts in metastasis *A K Nigam, M Pignatelli, P B Boulos*

Case reports

1001 Interrelation of strongyloidiasis and tuberculosis *A D Dwarakanath, M Welton, C J Ellis, R N Allan*

1004 Budd-Chiari syndrome in a young patient with anticardiolipin antibodies: need for prolonged anticoagulant treatment *R J Th Ouwendijk, J C Koster, J H P Wilson, J Stibbe, J S Lameris, W Visser, J P Benhamou*

Views and reviews

1007 Personal viewpoints

1010 **Letters to the editor Book review Notes**

No 8 AUGUST 1994

Leading articles

1011 Combined percutaneous and endoscopic procedures for bile duct obstruction *D F Martin*

1013 Host immune response and variations in the virus genome: pathogenesis of liver damage caused by hepatitis B virus *N V Naoumov, A L W F Eddleston*

1018 Diagnosis of invasive amoebiasis – time to end the morphology era *J I Ravdin*

Editorial

1021 Gut index change

Oesophagus

1022 Classification and localisation of carcinoembryonic antigen (CEA) related antigen expression in normal oesophageal squamous mucosa and squamous carcinoma *D S A Sanders, C A Wilson, F J Bryant, J Hopkins, G D Johnson, D M Milne, M A Kerr*

Acid related disease

1026 Acupuncture inhibits vagal gastric acid secretion stimulated by sham feeding in healthy subjects *G Lux, J Hagel, P Bäcker, G Bäcker, R Vogl, H Ruppin, S Domschke, W Domschke*

1030 Interobserver variation in assessment of gastroduodenal lesions associated with non-steroidal anti-inflammatory drugs *N Hudson, S Everitt, C J Hawkey*

Helicobacter pylori

1033 Duodenal ulcer, *Helicobacter pylori*, and gastric secretion *K Chandrakumaran, D Vaira, M Hobsley*

Coeliac disease

1037 Detection of interferon gamma mRNA in the mucosa of patients with coeliac disease by in situ hybridisation *M Kontakou, R P Sturgess, R T Przemioslo, G A Limb, J M Nelufer, P J Ciclitira*

Small intestine

1042 Morphological method for the diagnosis of human adult type hypolactasia *L Maiuri, M Rossi, V Raia, F Paparo, S Coletta, F Mazzeo, A Breglia, S Auricchio*

1047 Role of bile in non-specific defence mechanisms of the gut *T Kalambaheti, G N Cooper, G D F Jackson*

1053 Intestinal perfusion of dietary levels of aluminium: association with the mucosa *J J Powell, C C Ainley, R Evans, R P H Thompson*

1058 Effects of diet on experimentally induced intestinal ulcers in rats: morphology and tissue leukotrienes *T Matsumoto, M Iida, F Kuroki, K Hizawa, H Koga, M Fujishima*

Motility

1064 Effect of octreotide on gastrointestinal pressure profiles in health and in functional and organic gastrointestinal disorders *K Haruma, J A Wiste, M Camilleri*

Inflammatory bowel disease

1070 The first 10 years' experience of restorative proctocolectomy for ulcerative colitis *P Setti-Carraro, J K Ritchie, K H Wilkinson, R J Nicholls, P R Hawley*

1076 Surgery for ulcerative colitis in the era of the pouch: The St Mark's Hospital experience *D M Melville, J K Ritchie, R J Nicholls, P R Hawley*

1081 Oral 4-aminosalicylic acid versus 5-aminosalicylic acid slow release tablets. Double blind, controlled pilot study in the maintenance treatment of Crohn's ileocolitis *S Schreiber, S Howaldt, A Raedler*

Large intestine

1086 Immunoelectron microscopic localisation of transforming growth factor alpha in rat colon *R Pérez-Tomás, X Culleré, M Asbert, D Díaz-Ruiz*

1090 Role of intestinal microflora in chronic inflammation and ulceration of the rat colon *S Videla, J Vilaseca, F Guarner, A Salas, F Treserra, E Crespo, M Antolin, J-R Malagelada*

1098 Methanogens outcomplete sulphate reducing bacteria for H_2 in the human colon *A Strocchi, J Furne, C Ellis, M D Levitt*

1102 Enhancement of ethanol induced rectal mucosal hyper regeneration with age in F344 rats *U A Simanowski, P Suter, R M Russell, M Heller, R Waldherr, R Ward, T J Peters, D Smith, H K Seita*

Liver

1107 Serum increase and liver overexpression of carbohydrate 19.9 antigen in patients with genetic haemochromatosis *Y M Deugnier, A-F Rabot, D Guyader, R Moirand, B Turlin, E Boucher, P Lebert, P Brissot*

1112 Safety of general anaesthesia and surgery in acute hepatic porphyria *S B Dover, L Plenderleith, M R Moore, K E L McColl*

Bile acids

1116 Apparent selective bile acid malabsorption as a consequence of ileal exclusion: effects on bile acid, cholesterol, and lipoprotein metabolism *J-E Åkerlund, I Björkhem, B Angelin, L Liljeqvist, K Einarsson*

Gall bladder

1121 Prospective audit of the introduction of laparoscopic cholecystectomy in the west of Scotland *G M Fullarton, G Bell, and the west of Scotland laparoscopic cholecystectomy audit group*

Pancreatitis

1127 Bile induced acute oedematous pancreatitis in rats: non-parallel changes in pancreatic morphology and amylase release in vitro *T Arendt, U Broschewitz*

1132 Comparison of pancreatic morphology and exocrine functional impairment in patients with chronic pancreatitis *T Bozkurt, U Braun, S Leferink, G Gilly, G Lux*

Case reports

1137 Avulsion of short gastric arteries caused by vomiting *N Hayes, P D Waterworth, S M Griffin*

1139 Bowel diversion should be used with caution in stenosing anal Crohn's disease *M E R Williamson, L E Hughes*

1141 'Conversion' from ulcerative colitis to Crohn's disease associated with corticosteroid treatment *A D Dwarakanath, J Nash, J M Rhodes*

1145 Systemic arteriovenous malformations: a feature of advanced liver disease *R Alcolado, J Bowry, P J Winwood, C A Loehry*

Contents

Views and reviews

1148 Personal viewpoint

1149 International gastroenterology

1150 **Letters to the editor Book review Notes Correction**

No 9 SEPTEMBER 1994

Leading articles

1155 New salicylates as maintenance treatment in ulcerative colitis *Gunnar Järnerot*

1159 *Enterobius vermicularis* infection *G C Cook*

1163 Hepatocyte and immune system: acute phase reaction as a contribution to early defence mechanisms *C Trautwein, K Böker, M P Manns*

Gastritis

1167 Fall in the prevalence of chronic gastritis over 15 years: analysis of outpatient series in Finland from 1977, 1985, and 1992 *P Sipponen, T Helske, P Järvinen, H Hyvärinen, K Seppälä, M Siurala*

1172 Histological assessment of the Sydney classification of endoscopic gastritis *S I Khakoo, A J Lobo, N A Shepherd, S P Wilkinson*

1176 Interaction of *Helicobacter pylori* and its fatty acids with parietal cells and gastric H^+/K^+-ATPase *W Beil, C Birkholz, S Wagner, K-F Sewing*

Gastric mucosal injury

1181 A novel antiulcerogenic stable radical prevents gastric mucosal lesions in rats *D Rachmilewitz, F Karmeli, E Okon, A Samuni*

1189 Role of gastric blood flow, neutrophil infiltration, and mucosal cell proliferation in gastric adaptation to aspirin in the rat *S J Konturek, T Brzozowski, J Stachura, A Dembinski, J Majka*

1197 Mucosal adaptation to aspirin induced gastric damage in humans. Studies on blood flow, gastric mucosal growth, and neutrophil activation *J W Konturek, A Dembinski, R Stoll, W Domschke, S J Konturek*

1205 Magnesium hydrogen breath test using end expiratory sampling to assess achlorhydria in pernicious anaemia patients *P Humbert, P López de Soria, F Fernández-Bañares, J Juncá, J Boix, R Planas, J C Quer, E Domenech, M A Gassull*

Endoscopy

1209 Appropriate use of upper gastrointestinal endoscopy – a prospective audit *M A Quine, G D Bell, R F McCloy, H B Devlin, A Hopkins, and the Steering Group of the Upper Gastrointestinal Endoscopy Audit Committee*

Coeliac disease

1215 Coeliac disease – associated disorders and survival *P Collin, T Reunala, E Pukkala, P Laippala, O Keyriläinen, A Pasternack*

1219 Localisation of vitamin D receptor in normal human duodenum and in patients with coeliac disease *K W Colston, A G Mackay, C Finlayson, J C Y Wu, J D Maxwell*

1226 Adenovirus 12 E1A gene detection by polymerase chain reaction in both the normal and coeliac duodenum *M Lawler, P Humphries, C O'Farrelly, H Hoey, O Sheils, M Jeffers, D S O'Briain, D Kelleher*

Small intestine

1233 Phytase activity in the human and rat small intestine *T H Iqbal, K O Lewis, B T Cooper*

1237 Role of the enteric nervous system in the maintained hypersecretion induced by enterotoxin STa in the nutritionally deprived intestine *H C Nzegwu, R J Levin*

1244 Studies on the enteropathy associated with primary hypogammaglobulinaemia *K Teahon, A D Webster, A B Price, J Weston, I Bjarnason*

1250 Distribution of membrane bound guanylyl cyclases in human intestine *G Krause, A Bayerl, J-M Heim, S Singh, R Gerzer*

Colorectal cancer

1258 Comparative clinicopathological and immunohistochemical study of ras and p53 in flat and polypoid type colorectal tumours *M Yukawa, T Fujimori, S Maeda, M Tabuchi, K Nagasako*

1262 Clinical heterogeneity of familial colorectal cancer and its influence on screening protocols *H F A Vasen, B G Taal, G Griffioen, F M Nagengast, A Cats, F H Menko, W Oskam, J H Kleibeuker, G J A Offerhaus, P Meera Khan*

1267 Comparison of gastrointestinal symptoms in colorectal carcinoma patients and community controls with respect to age *R Curless, J French, G V Williams, O F W James*

Large intestine

1271 In vitro acetaldehyde formation by human colonic bacteria *K Jokelainen, R P Roine, H Väänänen, M Färkkilä, M Salaspuro*

1275 Diverting colostomy induces mucosal and muscular atrophy in rat distal colon *P Kissmeyer-Nielsen, H Christensen, S Laurberg*

Inflammatory bowel disease

1282 Optimum dose of olsalazine for maintaining remission in ulcerative colitis *S P L Travis, C Tysk, H J de Silva, H Sandberg-Gertzén, D P Jewell, G Järnerot*

Liver

1287 Thrombin – an effective treatment for gastric variceal haemorrhage *S G J Williams, R A Peters, D Westaby*

1290 Portal and systemic haemodynamic action of *N*-acetylcysteine in patients with stable cirrhosis *A L Jones, I H Bangash, I A D Bouchier, P C Hayes*

Gall stones

1294 Cost effectiveness of adjuvant bile salt treatment in extracorporeal shock wave lithotripsy for the treatment of gall bladder stones *J P Nicholl, B Ross, P C Milner, J E Brazier, L Westlake, B Kohler, E Frost, B T Williams, A G Johnson*

1301 Symptoms and health status before and six weeks after open cholecystectomy: a European cohort study *N A Black, E Thompson, C F B Sanderson, and the ECHSS group*

Acute pancreatitis

1306 Routes of spread of pathogens into the pancreas in a feline model of acute pancreatitis *A L Widdison, N D Karanjia, H A Reber*

1311 Trypsinogen activation peptides (TAP) concentrations in the peritoneal fluid of patients with acute pancreatitis and their relation to the presence of histologically confirmed pancreatic necrosis *D I Heath, C Wilson A M Gudgeon, A Jehanli, A Shenkin, C W Imrie*

Case reports

1316 Inflammatory bowel disease in married couples: 10 cases in Nord Pas de Calais region of France and Liège county of Belgium *M C Comes, C Gower-Rousseau, J F Colombel, J Belaïche, H J Van Kruiningen, M C Nuttens, A Cortot*

1319 Intrasphincteric injection of botulinum toxin for suspected sphincter of Oddi dysfunction *P J Pasricha, E P Miskovsky, A N Kalloo*
1322 Primary amyloidosis and severe intrahepatic cholestatic jaundice *R A Peters, G Koukoulis, A Gimson, B Portmann, D Westaby, R Williams*

Views and reviews
1326 International gastroenterology
1329 **Letters to the editor Book reviews Note**

No 10 OCTOBER 1994

Leading articles
1331 Perisinusoidal lipocytes and fibrogenesis *A M Gressner*
1334 Gastrointestinal manifestations of schistosomiasis *G Thomas Strickland*
1338 Functional aspects of small bowel transplantation: past, present, and future *M A C Meijssen, E Heineman*

Special report
1342 Gastrointestinal endoscopy in general practice

Oesophagus
1343 Cell adhesion molecules in oesophageal epithelium *H Dobson, M Pignatelli, D Hopwood, C D'Arrigo*
1348 Dysplasia and aneuploidy as markers of malignant degeneration in Barrett's oesophagus *M B E Menke-Pluymers, A H Mulder, W C J Hop, M van Blankenstein, H W Tilanus, The Rotterdam Oesophageal Tumour Study Group*
1352 24 Hour ambulatory oesophageal pH monitoring in uncomplicated Barrett's oesophagus *C S Neumann, B T Cooper*
1356 β Adrenergic modulation of human upper intestinal propulsive forces *N K Ahluwalia, D G Thompson, J Barlow, L Heggie*
1360 Forceful dilatation under endoscopic control in the treatment of achalasia: a randomised trial of pneumatic versus metallic dilator *F Mearin, J R Armengol, L Chicharro, M Papo, A Balboa, J R Malagelada*
1363 Impaired oesophageal transit of capsule versus tablet formulations in the elderly *A C Perkins, C G Wilson, P E Blackshaw, R M Vincent, R J Dansereau, K D Juhlin, P J Bekker, R C Spiller*

Gastric cancer
1368 Dukes's classification: a valid prognostic indicator for gastric cancer *Y Adachi, M Mori, Y Maehara, K Sugimachi*
1372 *Helicobacter pylori* and early gastric cancer *M E Craanen, P Blok, W Dekker, G N J Tytgat*

Helicobacter pylori
1375 Rebamipide, a novel antiulcer agent, attenuates *Helicobacter pylori* induced gastric mucosal cell injury associated with neutrophil derived oxidants *M Suzuki, S Miura, M Mori, A Kai, H Suzuki, D Fukumura, M Suematsu, M Tsuchiya*
1379 Gastric T lymphocyte responses to *Helicobacter pylori* in patients with *H pylori* colonisation *X J Fan, A Chua, C N Shahi, J McDevitt, P W N Keeling, D Kelleher*
1385 Low prevalence of *Helicobacter pylori* in inflammatory bowel disease: association with sulphasalazine *E El-Omar, I Penman, G Cruikshank, S Dover, S Banerjee, C Williams, K E L McColl*

Peptic ulcer
1389 Clinical courses and predictors for rebleeding in patients with peptic ulcers and non-bleeding visible vessels: a prospective study *Hwai-Jeng Lin, Chin-Lin Perng, Fa-Yauh Lee, Chen-Hsen Lee, Shou-Dong Lee*
1394 Enhanced gastric nitric oxide synthase activity in duodenal ulcer patients *D Rachmilewitz, F Karmeli, R Eliakim, R Stalnikowicz, Z Ackerman, G Amir, J S Stamler*

Small intestine
1398 Raised pro-inflammatory cytokines interleukin 6 and tumour necrosis factor α in coeliac disease mucosa detected by immunohistochemistry *R T Przemioslo, M Kontakou, V Nobili, P J Ciclitira*
1404 Test conditions greatly influence permeation of water soluble molecules through the intestinal mucosa: need for standardisation *M Peeters, M Hiele, Y Ghoos, V Huysmans, K Geboes, G Vantrappen, P Rutgeerts*
1409 Gastrointestinal adaptation to enhanced small intestinal lipid exposure *N J Brown, R D E Rumsey, N W Read*
1413 Impact of familial amyloid associated polyneuropathy on duodenal endocrine cells *M El-Salhy, O Suhr, R Stenling, E Wilander, L Grimelius*

Inflammatory bowel disease
1419 Clinicopathological characteristics of colorectal carcinoma complicating ulcerative colitis *W R Connell, I C Talbot, N Harpaz, N Britto, K H Wilkinson, M A Kamm, J E Lennard-Jones*
1424 Ileal and colonic fatty acid profiles in patients with active Crohn's disease *S Bühner, E Nagel, J Körber, H Vogelsang, T Linn, R Pichlmayr*
1429 Increased leukotriene B_4 release from ileal pouch mucosa in ulcerative colitis compared with familial adenomatous polyposis *D J Gertner, D S Rampton, M V Madden, I C Talbot, R J Nicholls, J E Lennard Jones*
1433 Incidence of inflammatory bowel disease in northern France (1988–1990) *C Gower-Rousseau, J-L Salomez, J-L Dupas, R Marti, M-C Nuttens, A Votte, M Lemahieu, B Lemaire, J-F Colombel, A Cortot*
1439 A budesonide prodrug accelerates treatment of colitis in rats *N Cui, D R Friend, R N Fedorak*

Large intestine
1447 Effect on lymph node status of triple levelling and immunohistochemistry with CAM 5.2 on node negative colorectal carcinomas *A G Nicholson, C G Marks, M G Cook*
1449 Adhesion of human enterotoxigenic *Escherichia coli* to human mucus secreting HT-29 cell subpopulations in culture *S Kerneis, M F Bernet, M H Coconnier, A L Servin*
1455 Evidence for the ambiguity of the term constipation: the role of irritable bowel syndrome *C S J Probert, P M Emmett, H A Cripps, K W Heaton*

Liver
1459 Respiratory function after injection sclerotherapy of oesophageal varices *T Samuels, M C Lovett, I T Campbell, C Makin, J Davies, S A Jenkins, J N Baxter*

Biliary tract
1464 Common bile duct stones are mainly brown and associated with duodenal diverticula *O Sandstad, T Osnes, V Skar, P Urdal, M Osnes*

Pancreas
1468 Chronic pancreatitis is associated with increased concentrations of epidermal growth factor receptor, transforming growth factor α, and phospholipase Cγ *M Korc, H Friess, Y Yamanaka, M S Kobrin, M Buchler, H G Beger*
1474 Chronic ethanol consumption increases the fragility of rat pancreatic zymogen granules *P S Haber, J S Wilson, A V Apte, M A Korsten, R C Pirola*

1479 Natural course of operated pseudocysts in chronic pancreatitis *A Löhr-Happe, M Peiper, P G Lankisch*

Progress report

1483 Enterocyte proliferation and intracellular bacteria in animals *S McOrist, C J Gebhart, G H K Lawson*

Hypothesis

1487 Did malaria select for primary adult lactase deficiency? *B Anderson, C Vullo*

Case reports

1490 Eosinophilic enterocolitis diagnosed by means of technetium-99m albumin scintigraphy and treated with budesonide (CIR) *M G V M Russel, R N M Zeijen, R-J M Brummer, A P de Bruine, M J P G van Kroonenburgh, R W Stockbrügger*

1493 Mesalazine induced interstitial nephritis *P J Thuluvath, M Ninkovic, J Calam, M Anderson*

1497 Copper associated childhood cirrhosis *S P Horslen, M S Tanner, T D B Lyon, G S Fell, M F Lowry*

1501 Pancreatic outflow obstruction as the critical event for human gall stone induced pancreatitis *M M Lerch, H Weidenbach, C A Hernandez, G Preclik, G Adler*

Views and reviews

1504 Personal viewpoint

1506 **Letter to the editor Book review Notes**

No 11 NOVEMBER 1994

Leading articles

1507 Cancer in Crohn's disease: dispelling the myths *D B Sachar*

1509 Cell biology of liver endothelial and Kupffer cells *B Smedsrød, P J De Bleser, F Braet, P Lovisetti, K Vanderkerken, E Wisse, A Geerts*

1517 Echinococcus of the liver *D L Morris*

Oesophageal motility

1519 Oesophageal motility and gastro-oesophageal reflux before and after healing of reflux oesophagitis. A study using 24 hour ambulatory pH and pressure monitoring *R Timmer, R Breumelhof, J H S M Nadorp, A J P M Smout*

1523 Secondary oesophageal peristalsis in patients with non-obstructive dysphagia *M N Schoeman, R H Holloway*

Oesophageal reflux

1529 Prospective evaluation of 24 hour ambulatory pH metry in Belsey Mark IV antireflux surgery *J M L M Horbach, A A M Masclee, C B H W Lamers, H G Gooszen*

1536 Primary peristalsis is the major acid clearance mechanism in reflux patients *A Anggiansah, G Taylor, N Bright, J Wang, W A Owen, T Rokkas, A R Jones, W J Owen*

Stomach

1543 Intragastric nitric oxide production in humans: measurements in expelled air *J O N Lundberg, E Weitzberg, J M Lundberg, K Alving*

1547 Evaluation of the trophic effect of longterm treatment with the histamine H_2 receptor antagonist loxtidine on rat oxyntic mucosa by differential counting of dispersed cells *E Brenna, H G P Swarts, C H W Klaassen, J J H H M de Pont, H L Waldum*

1551 Percutaneous endoscopic gastrostomy in a general hospital: prospective evaluation of indications, outcome, and randomised comparison of two tube designs *M Z Panos, H Reilly, A Moran, T Reilly, P J W Wallis, R Wears, I M Chesner*

Helicobacter pylori

1557 Inhibitory effect of polyunsaturated fatty acids on the growth of *Helicobacter pylori:* a possible explanation of the effect of diet on peptic ulceration *L Thompson, A Cockayne, R C Spiller*

1562 High prevalence of *Helicobacter pylori* metronidazole resistance in migrants to east London; relation with previous nitroimidazole exposure and gastroduodenal disease *N Banatvala, G R Davies, Y Abdi, L Clements, D S Rampton, J M Hardie, R A Feldman*

1567 Cytokine gene expression in *Helicobacter pylori* associated antral gastritis *S F Moss, S Legon, J Davies, J Calam*

1571 Improved fold width and increased acid secretion after eradication of the organism in *Helicobacter pylori* associated enlarged fold gastritis *Y Yasunaga, Y Shinomura, S Kanayama, M Yabu, T Nakanishi, Y Miyazaki, Y Murayama, J J Bonilla-Palacios, Y Matsuzawa*

Small intestine

1575 Characterisation of oxidative injury to an intestinal cell line (HT-29) by hydrogen peroxide *A J M Watson, J N Askew, G I Sandle*

1582 Lymphoid and non-lymphoid cells in the epithelium and lamina propria of intestinal mucosa of pigs *H J Rothkötter, T Kirchhoff, R Pabst*

Inflammatory bowel disease

1590 Ulcerative colitis and Crohn's disease: a comparison of the colorectal cancer risk in extensive colitis *C D Gillen, R S Walmsley, P Prior, H A Andrews, R N Allan*

1593 Increased group II phospholipase A_2 in colonic mucosa of patients with Crohn's disease and ulcerative colitis *T Minami, H Tojo, Y Shinomura, Y Matsuzawa, M Okamoto*

1599 Microalbuminuria in inflammatory bowel disease *N Mahmud, J Stinson, M A O'Connell, T J Mantle, P W N Keeling, J Feely, D G Weir, D Kelleher*

Large intestine

1605 Nerve growth factor receptor immunostaining suggests an extrinsic origin for hypertrophic nerves in Hirschsprung's disease *H Kobayashi, D S O'Briain, P Puri*

1608 Clinical significance of *Clostridium difficile* and its toxins in faeces of immunocompromised children *M J H M Wolfhagen, K Meijer, A C Fluit, R Torensma, R A Bruinsma, A Fleer, J Verhoef*

1613 Effect of *Escherichia coli* enterotoxins on macromolecular absorption *M Verma, S Majumdar, N K Ganguly, B N S Walia*

1617 Diagnostic yield and management benefit of laparoscopy: a prospective audit *G C Vander Velpen, S M Shimi, A Cuschieri*

Familial adenomatous polyposis

1622 Phenotypic expression in familial adenomatous polyposis: partial prediction by mutation analysis *K P Nugent, R K S Phillips, S V Hodgson, S Cottrell, J Smith-Ravin, K Pack, W F Bodmer*

1624 Rectal mucosal ornithine decarboxylase activity in familial adenomatous polyposis after ileorectal anastomosis *S E Patchett, E M Alstead, L Trzeciak, T Wocial, R K S Phillips, M J G Farthing*

Colorectal cancer

1627 Mutations of Ki-ras and p53 genes in colorectal cancer and their prognostic significance *M Morrin, M Kelly, N Barrett, P Delaney*

1632 Cimetidine inhibits in vivo growth of human colon cancer and reverses histamine stimulated in vitro and in vivo growth *W J Adams, J A Lawson, D L Morris*

Liver

1637 Monitoring oxidative damage in patients with liver cirrhosis and different daily alcohol intake *P Clot, M Tabone, S Aricò, E Albano*

1644 Lipid peroxidation in rats chronically fed ethanol *J P Teare, S M Greenfield, D Watson, N A Punchard, N Miller, C A Rice-Evans, R P H Thompson*

1648 Bacterial translocation in cirrhotic rats. Its role in the development of spontaneous bacterial peritonitis *J M Llovet, R Bartoli, R Planas, E Cabré, M Jimenez, A Urban, I Ojanguren, J Arnal, M A Gassull*

Gall stones

1653 Addition of dimethylsulphoxide to methyl-*tert*-butyl ether and ethyl propionate increases cholesterol dissolving capacity and cholesterol gall stone dissolution in vitro *J J G H M Bergman, A K Groen, K Huibregtse, G N J Tytgat*

Pancreas

1659 Specific interaction of pancreatic elastase and leucocytes to produce oxygen radicals and its implication in pancreatitis *N Tsuji, N Watanabe, T Okamoto, Y Niitsu*

Case reports

1665 Distal biliary stricture as a complication of sclerosant injection for bleeding duodenal ulcer *W Luman, N Hudson, C P Choudari, M A Eastwood, K R Palmer*

1668 Polypoid mucosal prolapse in a pelvic ileal reservoir *J M Blazeby, P Durdey, B F Warren*

1670 Cap polyposis occurring in the postoperative course of pelvic surgery *M Gèhénot, J-F Colombel, W Wolschies, P Quandalle, P Gower, M Lecomte-Houcke, H Van Kruiningen, A Cortot*

Views and reviews

1673 Personal viewpoint

1675 **Letters to the editor Book reviews Notes**

A1680 **British Stomach Cancer Group**

No 12 DECEMBER 1994

Leading articles

1683 *Helicobacter pylori* in eastern European countries: what is the current status? *T Matysiak-Budnik, F Mégraud*

1687 Paediatric problems in tropical gastroenterology *J A Walker-Smith*

Oesophagus

1690 Nitrinergic and peptidergic innervation of the human oesophagus *C Singaram, A Sengupta, M A Sweet, D J Sugarbaker, R K Goyal*

Stomach

1697 Expression of p53 in early (T1) gastric carcinoma and precancerous adjacent mucosa *M J Brito, G T Williams, H Thompson, M I Filipe*

Small intestine

1701 Release of vasodilator, but not vasoconstrictor, neuropeptides and of enteroglucagon by intestinal ischaemia/reperfusion in the rat *L Meleagros, M A Ghatei, S R Bloom*

1707 Enteric protein loss and intestinal permeability changes in children during acute shigellosis and after recovery: effect of zinc supplementation *A N Alam, S A Sarker, M A Wahed, M Khatun, M M Rahaman*

Inflammatory bowel disease

1712 Circulating immunoglobulin G1 antibody in patients with ulcerative colitis against the colonic epithelial protein detected by a novel monoclonal antibody *A Dasgupta, A Mandal, K M Das*

1718 Calcipotriol inhibits rectal epithelial cell proliferation in ulcerative proctocolitis *M G Thomas, K P Nugent, A Forbes, R C N Williamson*

1721 Longterm appraisal of the histological appearances of the ileal reservoir mucosa after restorative proctolectomy for ulcerative colitis *P Setti Carraro, I C Talbot, R J Nicholls*

1728 Depressed T cell reactivity to recall antigens in Crohn's disease before and after surgical resection *G D'Haens, M Hiele, P Rutgeerts, K Geboes, J L Ceuppens*

Large intestine

1734 Colonic secretory effect in response to enteral feeding in humans *T E Bowling, A H Raimundo, G K Grimble, D B A Silk*

1742 Divergent effects of epidermal growth factor and calcipotriol on human rectal cell proliferation *M G Thomas, G R Brown, M R Alison, R C N Williamson*

1747 Digestibility and bulking effect of ispaghula husks in healthy humans *P Marteau, B Flourié, C Cherbut, J-L Corrèze, P Pellier, J Seylaz, J-C Rambaud*

Liver

1753 Resistance of erythrocytes to lipid peroxidation in alcoholic patients *N A Punchard, H Senturk, J P Teare, R P H Thompson*

Biliary tree

1757 Prevention of biliary stent occlusion using cyclical antibiotics and ursodeoxycholic acid *S Ghosh, K R Palmer*

Gall stones

1760 Rapid cholesterol nucleation time and cholesterol gall stone formation after subtotal or total colectomy in humans *I Makino, K Chijiiwa, H Higashijima, S Nakahara, M Kishinaka, S Kuroki, R Mibu*

Progress report

1765 Enteral nutrition and the small intestine *A P Jenkins, R P H Thompson*

Views and reviews

1770 Personal viewpoint

1772 **Letters to the editor Book reviews Notes**

1777 **Author index – Main headings, 1994**

1781 **Subject index – Main headings, 1994**

1796 **Author index – Supplements, 1994**

1800 **Subject index – Supplements, 1994**